



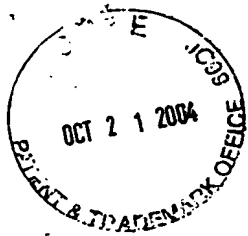
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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application Number	10/730,555
		Filing Date	December 8, 2003
		First Named Inventor	Darwin et al.
		Group Art Unit	1646
		Examiner Name	Unknown
Total Number of Pages in This Submission	8 and cited references	Attorney Docket Number	19603/4292 (CRF D-3099-03)

ENCLOSURES (check all that apply)		
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Firm or Individual name	Noreen L. Connolly, Esq. Nixon Peabody LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603-1051 Telephone: (585) 263-1597 Fax: (585) 263-1600
Signature	Registration No. 48,987
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PATENT  
Docket No.: 19603/4292 (CRF D-3099-03)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants :	Darwin et al.	)	Examiner:
		)	To Be Assigned
Serial No. :	10/730,555	)	
		)	Art Unit:
Cnfrm. No. :	3247	)	1646
		)	
Filed :	December 8, 2003	)	
		)	
For :	MYCOBACTERIUM TUBERCULOSIS (MTB) TARGETS	)	
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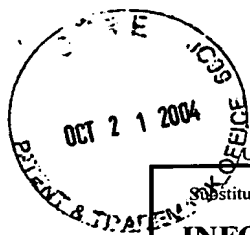
Date: Oct. 19, 2004

Noreen L. Connolly  
Noreen L. Connolly  
Registration No. 48,987

NIXON PEABODY LLP  
Clinton Square, P.O. Box 31051  
Rochester, New York 14603-1051  
Telephone: (585) 263-1597  
Facsimile: (585) 263-1600

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/730,555
Sheet 1 of 6				Filing Date	December 8, 2003
				First Named Inventor	Darwin et al.
				Art Unit	1646
				Examiner Name	To Be Assigned
				Attorney Docket Number	19603/4292 (CRF D-3099-03)

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-			
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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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	1	Akaike, "Role of Free Radicals in Viral Pathogenesis and Mutation," <i>Rev. Med. Virol.</i> 11(2):87-101 (2001)	
	2	Bloom et al., "Tuberculosis: Commentary on a Re-Emergent Killer," <i>Science</i> 257:1055-1064 (1992)	
	3	Benaroudj et al., "PAN, the Proteasome-Activating Nucleotidase from Archaeobacteria, is a Protein-Unfolding Molecular Chaperone," <i>Nat. Cell. Biol.</i> 2(11):833-839 (2000)	

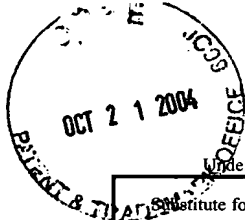
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				Group Art Unit	1646
				Examiner Name	To Be Assigned
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	4	Bryk et al., "Metabolic Enzymes of Mycobacteria Linked to Antioxidant Defense by a Thioredoxin-Like Protein," <i>Science</i> 295(5557):1073-1077 (2002)		
	5	Buchmeier et al., "A Parallel Intraphagosomal Survival Strategy Shared by <i>Mycobacterium tuberculosis</i> and <i>Salmonella enterica</i> ," <i>Molec. Microbiol.</i> 35(6):1375-1382 (2000)		
	6	Chan et al., "Killing of Virulent <i>Mycobacterium tuberculosis</i> by Reactive Nitrogen Intermediates Produced by Activated Murine Macrophages," <i>J. Exp. Med.</i> 175:1111-1122 (1992)		
	7	Chan et al., "Effects of Nitric Oxide Synthase Inhibitors on Murine Infection with <i>Mycobacterium tuberculosis</i> ," <i>Infect. Immun.</i> 63(2):736-740 (1995)		
	8	Choi et al., "Demonstration that <i>fbiC</i> is required by <i>Mycobacterium bovis</i> BCG for Coenzyme F <sub>420</sub> and FO Biosynthesis," <i>J. Bacteriol.</i> 184(9):2420-2428 (2002)		
	9	Cole et al., "Deciphering the Biology of <i>Mycobacterium tuberculosis</i> from the Complete Genome Sequence," <i>Nature</i> 393:537-544 (1998); <i>erratum Nature</i> 396(190-198 (1998)		
	10	Cole et al., "Massive Gene Decay in the Leprosy Bacillus," <i>Nature</i> 409:1007-1011 (2001)		
	11	Daley et al., "An Outbreak of Tuberculosis with Accelerated Progression Among Persons Infected with the Human Immunodeficiency Virus. An Analysis Using Restriction-Fragment-Length Polymorphisms," <i>N. Engl. J. Med.</i> 326(4):231-235 (1992)		
	12	Davies K.J., "Degradation of Oxidized Proteins by the 20S Proteasome," <i>Biochimie</i> 83:301-310 (2001)		
	13	De Mot et al., "Proteasomes and Other Self-Compartmentalizing Proteases in Prokaryotes," <i>Trends Microbiol.</i> 7(2):88-92 (1999)		
	14	Dye et al., "Consensus Statement. Global Burden of Tuberculosis: Estimated Incidence, Prevalence, and Mortality by Country. WHO Global Surveillance and Monitoring Project," <i>JAMA</i> 282(7):677-686 (1999)		
	15	Ehrt et al., "Reprogramming of the Macrophage Transcriptome in Response to Interferon- $\gamma$ and <i>Mycobacterium tuberculosis</i> : Signaling roles of Nitric Oxide Synthase-2 and Phagocyte Oxidase," <i>J. Exp. Med.</i> 194(8):1123-1140 (2001)		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	10/730,555
				Filing Date	December 8, 2003
				First Named Inventor	Darwin et al.
				Group Art Unit	1646
				Examiner Name	To Be Assigned
Sheet	3	of	6	Attorney Docket Number	19603/4292 (CRF D-3099-03)

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	16	Facchetti et al., "Expression of Inducible Nitric Oxide Synthase in Human Granulomas and Histiocytic Reactions," <i>Am. J. Pathol.</i> 154(1):145-152 (1999)		
	17	Forbes et al., "Divalent-Metal Transport by NRAMP Proteins at the Interface of Host-Pathogen Interactions," <i>Trends Microbiol.</i> 9(8):397-403 (2001)		
	18	Graham et al., "Identification of <i>Mycobacterium tuberculosis</i> RNAs Synthesized in Response to Phagocytosis by Human Macrophages by Selective Capture of Transcribed Sequences (SCOTS)," <i>Proc. Natl. Acad. Sci. USA</i> 96:11554-11559 (1999)		
	19	Grune et al., "Peroxynitrite Increases the Degradation of Aconitase and Other Cellular Proteins by Proteasome," <i>J. Biol. Chem.</i> 273(18):10857-10862 (1998)		
	20	Hernandez-Pando et al., "Persistence of DNA from <i>Mycobacterium tuberculosis</i> in Superficially Normal Lung Tissue During Latent Infection," <i>Lancet</i> 356:2133-2138 (2000)		
	21	Karimova et al., "A Bacterial Two-Hybrid System Based on a Reconstituted Signal Transduction Pathway," <i>Proc. Natl. Acad. Sci. USA</i> 95:5752-5756 (1998)		
	22	Kaushal et al., "Reduced Immunopathology and Mortality Despite Tissue Persistence in a <i>Mycobacterium tuberculosis</i> Mutant Lacking Alternative $\sigma$ Factor, SigH," <i>Proc. Natl. Acad. Sci. USA</i> 99(12):8330-8335 (2002)		
	23	Keane et al., "Tuberculosis Associated with Infliximab, a Tumor Necrosis-Factor $\alpha$ -Neutralizing Agent," <i>N. Engl. M. Med.</i> 345(15):1098-1104 (2001)		
	24	Kisselev et al., "Proteasome Inhibitors: from Research Tools to Drug Candidates," <i>Chem. Biol.</i> 8(8):739-758 (2001)		
	25	Knipfer et al., "Inactivation of the 20S Proteasome in <i>Mycobacterium smegmatis</i> ," <i>Mol. Microbiol.</i> 25(2):375-383 (1997)		
	26	Langer, T. "AAA Proteases: Cellular Machines for Degrading Membrane Proteins," <i>Trends in Biol. Sci.</i> 25:247-251 (2000)		
	27	Lienhardt et al., "Estimation of the Impact of the Human Immunodeficiency Virus Infection on Tuberculosis: Tuberculosis Risks Re-visited? <i>Int. J. Tuberc. Lung Dis.</i> 1(3):196-203 (1997)		

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	28	Long et al., "Mycobacteriocidal Action of Exogenous Nitric Oxide," <i>Antimicrob. Agents Chemother.</i> 43(2):403-405 (1999)	
	29	MacMicking et al., "Altered Responses to Bacterial Infection and Endotoxic Shock in Mice Lacking Inducible Nitric Oxide Synthase," <i>Cell</i> 81:641-650 (1995)	
	30	MacMicking et al., "Nitric Oxide and Macrophage Function," <i>Annu. Rev. Immunol.</i> 15:323-350 (1997)	
	31	MacMicking et al., "Identification of Nitric Oxide Synthase as a Protective Locus Against Tuberculosis," <i>Proc. Natl. Acad. Sci. USA</i> 94:5243-5248 (1997)	
	32	Manganelli et al., "Role of the Extracytoplasmic-Function Sigma Factor Sigma(H) in <i>Mycobacterium tuberculosis</i> Global Gene Expression," <i>Mol. Microbiol.</i> 45(2):365-374 (2002)	
	33	Maragos et al., "Mutagenicity of Glyceryl Trinitrate (nitroglycerin) in <i>Salmonella typhimurium</i> ," <i>Mutat. Res.</i> 298(3):187-195 (1993)	
	34	Mogues et al., "The Relative Importance of T Cell Subsets in Immunity and Immunopathology of Airborne <i>Mycobacterium tuberculosis</i> Infection in Mice," <i>J. Exp. Med.</i> 193(3):271-280 (2001)	
	35	Nagy et al., "The 20S Proteasome of <i>Streptomyces coelicolor</i> ," <i>J. Bacteriol.</i> 180(20):5448-5453 (1998)	
	36	Nakata et al., " <i>Mycobacterium Tuberculosis</i> Enhances Human Immunodeficiency Virus-1 Replication in the Lung," <i>Am. J. Resp. &amp; Crit. Care Med.</i> 155:996-1003 (1997)	
	37	Nathan et al., "Reactive Oxygen and Nitrogen Intermediates in the Relationship Between Mammalian Hosts and Microbial Pathogens," <i>Proc. Natl. Acad. Sci. USA</i> 97(16):8841-8848 (2000)	
	38	Nathan et al., "Inducible Nitric Oxide Synthase in the Tuberculous Human Lung," <i>Am. J. Respir. Crit. Care Med.</i> 166:130-131 (2002)	
	39	Nathan et al., in <i>In Tuberculosis, Second Edition</i> , Rom et al., eds., Lippincott Williams & Wilkins, New York, New York, pp. 215-235 (2003)	

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	40	Ogura et al., "AAA Superfamily ATPases; Common Structure- Diverse Function," <i>Genes to Cells</i> 6:575-97 (2001)	
	41	Raman et al., "The Alternative Sigma Factor SigH Regulates Major Components of Oxidative and Heat Stress Responses in <i>Mycobacterium tuberculosis</i> ," <i>J. Bacteriol.</i> 183(20):6119-6125 (2001)	
	42	Raupach et al., "Immune Responses to Intracellular Bacteria," <i>Curr. Opin. Immun.</i> 13:417-428 (2001)	
	43	Rosenkrands et al., "Towards the Proteome of <i>Mycobacterium tuberculosis</i> ," <i>Electrophoresis</i> 21:3740-3756 (2000)	
	44	Russell, " <i>Mycobacterium tuberculosis</i> : Here Today, and Here Tomorrow," <i>Nat. Rev. Mol. Cell. Biol.</i> 2:569-577 (2001)	
	45	Sasseti et al., "Comprehensive Identification of Conditionally Essential Genes in <i>Mycobacteria</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 98(22):12712-12717 (2001)	
	46	Sasseti et al., "Genes Required for <i>Mycobacterial</i> Growth Defined by High Density Mutagenesis," <i>Mol. Microbiol.</i> 48(1):77-84 (2003)	
	47	Scanga et al., "The Inducible Nitric Oxide Synthase Locus Confers Protection Against Aerogenic Challenge of Both Clinical and Laboratory Strains of <i>Mycobacterium tuberculosis</i> in Mice," <i>Infect. Immun.</i> 69(12):7711-7717 (2001)	
	48	Schaible et al., "Cytokine Activation Leads to Acidification and Increases Maturation of <i>Mycobacterium avium</i> -Containing Phagosomes in Murine Macrophages," <i>J. Immunol.</i> 160(3):1290-1296 (1998)	
	49	St. John et al., "Peptide Methionine Sulfoxide Reductase from <i>Escherichia coli</i> and <i>Mycobacterium tuberculosis</i> Protects Bacteria Against Oxidative Damage from Reactive Nitrogen Intermediates," <i>Proc. Natl. Acad. Sci. USA</i> 98(17):9901-9906 (2001)	
	50	Stuehr et al., "Nitric Oxide. A Macrophage Product Responsible for Cytostasis and Respiratory Inhibition in Tumor Target Cells," <i>J. Exp. Med.</i> 169:1543-1555 (1989)	
	51	Tamir et al., "DNA Damage by Nitric Oxide," <i>Chem. Res. Toxicol.</i> 9(5):821-7 (1996)	

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	53	Vale, RD. "AAA proteins: Lords of the Ring," <i>J. Cell Biol</i> 150(1):F13-19 (2000)	
	54	Walter S., "Structure and Function of the GroE Chaperone," <i>Cell. Mol. Life Sci.</i> 59:1589-1597 (2002)	
	55	Wolf et al., "Characterization of ARC, a Divergent Member of the AAA ATPase Family from <i>Rhodococcus erythropolis</i> ," <i>J. Mol. Biol.</i> 277(1):13-25 (1998)	
	56	Weber et al., "Anaerobic nitrate Reductase (narGHJI) Activity of <i>Mycobacterium bovis</i> BCG <i>in vitro</i> and its Contribution to Virulence in Immunodeficient Mice," <i>Mol. Micro.</i> 35(5):1017-1025 (2000)	
	57	Whalen et al., "Accelerated Course of Human Immunodeficiency Virus Infection after Tuberculosis," <i>Am. J. Resp. &amp; Crit. Care Med.</i> 151:129-135 (1995)	
	58	World Health Organization, "Tuberculosis and AIDS: Statement on AIDS and Tuberculosis," <i>Bulletin Int. Tuber. Lung Dis</i> 64(1):8-11 (1989)	
	59	Zhuang et al., "Nitric Oxide-Induced Mutations in the HPRT Gene of Human Lymphoblastoid TK6 Cells and in <i>Salmonella typhimurium</i> ," <i>Environ. Mol. Mutagen.</i> 35(1):39-47 (2000)	
	60	Zhuang et al., "Mutagenesis Associated with Nitric Oxide Production in Macrophages," <i>Proc. Natl. Acad. Sci. USA</i> 95:8286-8291 (1998)	

Examiner Signature		Date Considered	
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.